Safety Data Sheet

HEK293T GAT1 (SLC6A1) Cells

SECTION 1: Identification of the Substances and the Company/Undertaking

Identification of the Substance or Mixture

Product Name: HEK293T GAT1 (SLC6A1) Cells **Catalog Number:** C1104

Company/Undertaking Identification

Ion Biosciences
3055 Hunter Road, Box 3
San Marcos, TX 78666
+1 512.957.9123

24 hour Emergency Response

866.536.0631
301.431.8585
+1 301.431.8585 (Outside the U.S.)
For Research Use Only. Not for use in diagnostic procedures.

SECTION 2: Hazards Identification

GHS - Classification

Signal word: None
Health Hazards: Not classified
Hazard statements: Not applicable

Precautionary Statements

Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: Not applicable.

Principle Routes of Exposure

Potential Health Effects

Eyes: May cause eye irritation with susceptible persons.
Skin: May cause skin irritation with susceptible persons.
Inhalation: May be harmful by inhalation.
Ingestion: May be harmful if swallowed.

Specific Effects

Carcinogenic effects: No Information available.
Mutagenic effects: No Information available. .
Reproductive toxicity: No Information available. .
Sensitization: No Information available. .
Target organ effects: No known effects under normal use conditions.

HMIS

Health	0
Flammability	0
Reactivity	0

SECTION 3: Composition/Information on Ingredients

CAS	Chemical Name	% By Weight
67-68-5	Dimethyl Sulfoxide	5%-10%

Additional notes: This substance or mixture contains no ingredients at concentrations to be considered hazardous; however, this product should be handled according to good lab practices, with proper personal protective equipment, proper engineering controls, and within the parameters of the purchaser's chemical hygiene plan.

SECTION 4: First Aid Measures

Skin contact: Wash with soap and water for several minutes. Immediate medical attention is not required.

Eye contact: Rinse immediately with water for several minutes. Remove contact lenses, if present and easy to do.

Ingestion: Rinse mouth with water. Seek medical attention if you feel unwell.

Inhalation: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed: Not applicable

Notes to physician: Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Dry chemical. Carbon Dioxide (CO_2) Foam. Water spray.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: Not known.

Advice for firefighters: Standard procedure for chemical fires.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. See Section 8 for more detail.

Environmental precautions: Avoid discharge into drains and waterways whenever possible.

Methods and material for containment and cleaning up: BSL-2 labs require immediate decontamination after spills. Gently cover the spill and apply 10% sodium hypochlorite. Allow sufficient contact time (30 min). Wipe with disinfectant.

Reference to other sections: See section 8 for more information.

SECTION 7: Handling and Storage

Handling: Always wear recommended Personal Protective Equipment. Avoid contact with skin and eyes. Use aseptic procedures. Decontaminate work surfaces regularly. Use personal protective equipment as required by BSL-2 regulations.

Conditions for safe storage, including any incompatibilities: Store at −80°C or in a liquid nitrogen dewar.

Specific end use(s): For research use only.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Exposure limits: ACGIH OEL (8-hour) = 250 ppm for dimethyl sulfoxide

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Exposure Controls

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable impervious gloves.

Eye protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: Impervious protective clothing.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: Do not let product enter drains or waterways.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties.

Form: Frozen liquid

Appearance: No data available.

Odor: No data available.

Odor threshold: No data available.

Boiling point/boiling range: °C No data available; °F No data available.

Melting point/melting range: -10°C to 2°C.

Flash point: °C No data available; °F No data available.

Autoignition temperature: °C No data available; °F No data available.

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Oxidizing properties: No data available.

Partition coefficient (n-octanol/water)**:** No data available.

Water solubility: No data available.

SECTION 10: Stability and Reactivity

Reactivity: No data available.

Stability: Stable under normal conditions.

Materials to avoid: Strong oxidizing agents.

Possibility of hazardous reactions: No data available.

Hazardous decomposition products: Stable under normal use conditions.

Polymerization: Hazardous polymerization does not occur.

Conditions to avoid: None under normal processing.

SECTION 11: Toxicological Information

Acute Toxicity:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LD50	Concentration
Dimethyl Sulfoxide	Acute oral toxicity; Rat; 28,500mg/kg	Rat; 40,000mg/kg	Acute inhalation toxicity; Rat; 5.33 mg/L; 4 hour	5%-10%

Principle Routes of Exposure

Respiratory organs, mouth, skin, eyes

Potential Health Effects

Eyes: May cause mild eye irritation in susceptible persons.

Skin: May cause mild skin irritation in susceptible persons

Inhalation: Harmful by inhalation.

Ingestion: Harmful if swallowed.

Carcinogenic effects: No data available.

Mutagenic effects: No known mutagenic effects.

Reproductive toxicity: No data available.

Sensitization: No Data available.

SECTION 12: Ecological Information

Ecotoxicity: Dimethyl sulfoxide is toxic to fish, aquatic plants, microorganisms, and aquatic invertebrates.

Chronic aquatic toxicity: No data available.

Mobility: No data available.

Biodegradation: Not readily biodegradable.

Bioaccumulation: Does not accumulate.

SECTION 13: Disposal Considerations

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique.

Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport Information

IATA/ADR/DOT-US/IMDG: Not Classified as dangerous in the meaning of transport regulations.

Proper shipping name: No dangerous good in sense of these transport regulations.

Hazard class: None.

Subsidiary class: None.

Packing group: None.

UN-No: None.

Environmental hazards: None.

SECTION 15: Regulatory Information

US Federal Regulations

SARA312, TSCA: Dimethyl Sulfoxide is listed on these Regulation list.

SARA 313: This product is not regulated by SARA313.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61): This product does not contain HAPs.

US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class: Non-controlled. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other Information

For Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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